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Docket No.: C1037/7013

(HCL/MAT)

SEQUENCE LISTING

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      Petersen, Deanna M.
      Fouron, Yves

<120> Immunostimulatory Nucleic Acids for the
      Treatment of Asthma and Allergy

<130> C1037/7013 (HCL/MAT)

<150> US 60/179,991
<151> 2000-02-03

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ggcggcggcg gcggcggcgg   20

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tcgtcgttgt cgttgtcgtt                                              20

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tcgtcgtttt gtcgttttgt cgtt                                        24

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tcgtcgttgt cgttttgtcg tt                                          22

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gcgtgcgttg tcgttgtcgt t                                           21

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agncccgnga acgnattcac                                                         20

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tgtcgtttgt cgtttgtcgt t                                                       21

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tgtcgttgtc gttgtcgttg tcgtt                                                   25
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tgtcgttgtc gtt                                                       13


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cccccccccc cccccccccc                                                20


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tctagcgttt ttagcgttcc                                                20


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tcgtcgtcgt cgtcgtcgtc gtt   23

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tcgtcgtttt gtcgttttgt cgtt   24

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<400> 263
tcgtcgttgt cgttttgtcg tt   22

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ggggagggag gaacttctta aaattccccc agaatgttt   39

<210> 265

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aaacattctg ggggaatttt aagaagttcc tccctcccc

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atgtttactt cttaaaattc ccccagaatg ttt

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aaacattctg ggggaatttt gtctagtaaa cat

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cccccttgacg ttttcccccc

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agcaccgaac gtgagagg

<210> 278
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<220>
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<210> 283
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<210> 284
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<223> Synthetic Sequence

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<220>
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tccatgatgt tcctagttct

<210> 286
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<400> 286   26
cccgaagtca tttcctctta acctgg

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<400> 287
ccaggttaag aggaaatgac ttcggg                                              26


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<223> m5c

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<210> 291
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<210> 292
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<210> 293
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<210> 294
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tcctggaggg gaagt


<210> 298
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tcctgggggg gaagt


<210> 299
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<220>
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tcctggtggg gaagt


<210> 300
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<210> 303
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tccaggactt ctctcaggtt

<210> 304
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<223> Synthetic Sequence

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<220>
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gctatgacgt tccaaggg                                                18

<210> 307
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<400> 307
tcaacgtt                                                           8

<210> 308
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tccaggactt tcctcaggtt                                              20

<210> 309
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ctctctgtag gcccgcttgg                                              20

<210> 310
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<220>
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<210> 311
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gtccgggcca ggccaaagtc

<210> 312
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<213> Artificial Sequence

<220>
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gtgcgcgcga gcccgaaatc

<210> 313
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<223> I   .

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<210> 314
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<220>
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<400> 314                                                    20
aatagtcgcc ataacaaaac

<210> 315
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<211> 20
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<220>
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<400> 315
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<223> Synthetic Sequence

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<400> 317
tcctgtcgtt gaagtttttt   20

<210> 318
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<220>
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<400> 318
gctagcttta gagctttaga gctt   24

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<220>
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<400> 319
tgctgcttcc cccccccccc   20

<210> 320
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<220>
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<400> 320
tcgacgttcc cccccccccc   20

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<400> 321
tcgtcgttcc cccccccccc   20

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tcgtcgttcc cccccccccc   20

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<400> 323
tcgccgttcc cccccccccc   20

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<212> DNA
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<400> 324
tcgtcgatcc cccccccccc   20

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        <220>
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tcctgccgtt gaagt   15

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        <220>
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tcctgacggt gaagt   15

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tcctgagctt gaagt   15

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gatccagtca cagtgacctg gcagaatctg gat   33

<210> 332
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gatccagatt ctgccaggtc actgtgactg gat   33

<210> 333
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<400> 333
gatccagtca cagtgactca gcagaatctg gat   33

<210> 334
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gatccagatt ctgctgagtc actgtgactg gat   33

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<222> (16)...(16)
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<223> Synthetic Sequence

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<210> 336
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<220>

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<221> modified_base
<222> (5)...(5)
<223> m5c

<223> Synthetic Sequence

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<210> 337
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<220>
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<223> m5c

<223> Synthetic Sequence

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<220>
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<223> m5c

<223> Synthetic Sequence

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<210> 339
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tcgtcgctcc cccccccccc                                                    20


<210> 340
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<400> 340
tcgtcggtcc cccccccccc   20

<210> 341
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tcggcgttcc cccccccccc   20

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<400> 342
ggccttttcc cccccccccc   20

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<400> 343
tcgtcgtttt gacgttttgt cgtt   24

<210> 344
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tcgtcgtttt gacgttttga cgtt   24

<210> 345
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<400> 345
ccgtcgttcc cccccccccc   20

<210> 346
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<400> 346
gcgtcgttcc cccccccccc   20

<210> 347
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<400> 347
tcgtcattcc cccccccccc   20

<210> 348
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<400> 348
acgtcgttcc cccccccccc   20

<210> 349
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<400> 349
ctgtcgttcc cccccccccc   20

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<223> Biotin moiety attached at 5' end of sequence.

<223> Synthetic Sequence

<400> 350
ttttcgtcg ttcccccccc cccc   24

<210> 351
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<220>
<221> misc_feature
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<223> Biotin moiety attached at 3' end of sequence.

<223> Synthetic Sequence

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tcgtcgttcc cccccccccc                                              20


<210> 352
<211> 24
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<213> Artificial Sequence

<220>
<221> misc_feature
<222> (22)...(24)
<223> Biotin moiety attached at 3' end of sequence.

<223> Synthetic Sequence

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tcgtcgtttt gtcgttttgt cgtt                                         24


<210> 353
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<212> DNA
<213> Artificial Sequence

<220>
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<400> 353
tccagttcct tcctcagtct                                              20


<210> 354
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<222> (2)...(2)
<223> m5c

<223> Synthetic Sequence

<400> 354
tngtcgtttt gtcgttttgt cgtt                                         24


<210> 355
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tcctggaggg gaagt   15

    <210> 356
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    <212> DNA
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    <220>
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    <400> 356
tcctgaaaag gaagt   15

    <210> 357
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<223> Synthetic Sequence

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<223> Biotin moiety attached at 5' end of sequence.

<223> Synthetic Sequence

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<210> 752
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<400> 752
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<210> 753
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<400> 753
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<210> 767
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ggggtcaagt ctgaggggg                                               20


<210> 769
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<220>
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<400> 769
cgcgcgcgcg cgcgcgcgcg                                              20


<210> 770
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<400> 770
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<400> 771
cccccccccc cccccccccc cccccccccc ccccc   35

<210> 772
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<400> 772
tccatgtcgc tcctgatcct   20

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<400> 773
gctaaacgtt agcgt   15

<210> 774
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<400> 774
tccatgtcga tcctgatgct   20

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<400> 775
tccatgccgg tcctgatgct   20

<210> 776
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<400> 776
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<210> 777
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<400> 777
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<400> 778
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<210> 779
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<400> 779
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<210> 780
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<400> 780
ctgctgctgc tgctgctgct g   21

<210> 781
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<400> 781

gagaacgctc cgaccttcga t   21

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       <400> 782   15
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       <210> 783
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       <210> 784
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       <223> Synthetic Sequence

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       <223> Conjugated to FITC moiety.

       <223> Synthetic Sequence

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       <210> 786
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<223> Conjugated to biotin moiety.

<223> Synthetic Sequence

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<210> 787
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<223> Synthetic Sequence

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<223> Conjugated to FITC moiety.

<223> Synthetic Sequence

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<210> 789
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<400> 789
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<210> 790
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<400> 790
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<210> 791
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<220>
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<400> 791
tcaacgtc                                                                    8


<210> 792
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<400> 792
ccatgtcggt cctgatgct                                                        19


<210> 793
<211> 18
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<220>
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<400> 793
gtttttatat aatttggg                                                         18


<210> 794
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<400> 794
tttttgtttg tcgttttgtc gtt                                                   23


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<400> 795
ttggggggggg tt                                                              12


<210> 796
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<400> 796
ggggttgggg gtt

13

<210> 797
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<400> 797
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17

<210> 798
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<221> modified_base
<222> (6)...(6)
<223> m5c

<223> Synthetic Sequence

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20

<210> 799
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<220>
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<400> 799
tcaacgttaa cgttaacgtt

20

<210> 800
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<223> Conjugated to biotin moiety.

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        <223> Conjugated to biotin moiety.

        <221> modified_base
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        <223> m5c

        <223> Synthetic Sequence

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        <210> 802
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        <223> Synthetic Sequence

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        <210> 804
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<220>
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<210> 806
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<400> 806
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<210> 807
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<210> 808
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<400> 808
tgcatgccgt acacagctct                                                   20


<210> 809
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        <400> 810
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        <210> 811
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        <400> 811
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        <210> 812
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        <220>
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        <400> 812
cccccccccc cc                                                        12


        <210> 813
        <211> 8
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        <220>
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        <400> 813
cccccccc                                                              8


        <210> 814
        <211> 12
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        <400> 814
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        <210> 815
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<210> 816
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<400> 816
gagcaagctg gaccttccat                                          20

<210> 817
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tcaacgttaa cgttaacgtt aacgttaacg tt                            32

<210> 818
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<400> 818
gagaacgctc gaccttcgat                                          20

<210> 819
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<400> 819
gtccccattt cccagaggag gaaat                                    25

<210> 820
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ctagcttgat gacgtcagcc gctag                                              25

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        <400> 822
cggctgacgt catcaa                                                        16

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        <212> DNA
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        <400> 823
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        <210> 824
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        <220>
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        <400> 824
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        <210> 825
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        <400> 825
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        <210> 826
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<400> 826
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<210> 827
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<400> 827
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<210> 828
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ctagcggctg acgtcataaa gctagc   26

<210> 829
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ctagctttat gacgtcagcc gctagc   26

<210> 830
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<212> DNA
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<400> 830
ctagcggctg agctcataaa gctagc   26

<210> 831
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<212> DNA
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<220>
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<400> 831

ctagtggctg acgtcatcaa gctag   25

    <210> 832
    <211> 20
    <212> DNA
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    <220>
    <223> Synthetic Sequence

    <400> 832
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    <210> 833
    <211> 24
    <212> DNA
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    <220>
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    <400> 833
gggaatgaaa gattttatta taag   24

    <210> 834
    <211> 26
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    <220>
    <223> Synthetic Sequence

    <400> 834
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    <210> 835
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    <220>
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    <400> 835
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    <210> 836
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    <220>
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    <400> 836
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    <210> 837
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<400> 837
ttaagaccaa taccgctacc accg   24

<210> 838
<211> 25
<212> DNA
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<400> 838
gatctagtga tgagtcagcc ggatc   25

<210> 839
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<212> DNA
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<400> 839
gatccggctg actcatcact agatc   25

<210> 840
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<400> 840
tccaagacgt tcctgatgct   20

<210> 841
<211> 20
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<400> 841
tccatgacgt ccctgatgct   20

<210> 842
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<400> 842
tccaccacgt ggctgatgct   20

<210> 843
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<210> 844
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<400> 845
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<210> 846
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<400> 846
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<210> 847
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<400> 847
ttcctctctg caagagact   19

<210> 848
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<400> 848
tgtatctctc tgaaggact   19

<210> 849
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<400> 849
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<210> 850
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<400> 850
gaaactgctg ctagtttcgc tttat   25

<210> 851
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<400> 851
tgcccaaaga ggaaaatttg tttcatacag   30

<210> 852
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backbone with   phosphodiester on 3' end.

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